

Abstract

The invention relates to a radial piston pump (1) for high-pressure fuel generation in fuel injection systems of internal combustion engines, in particular in a common rail injection system, having a drive shaft (4) which is mounted in a pump casing (2) and has an eccentric shaft section (6) on which a running roller (8) is mounted, and having preferably a plurality of pistons (16), which are arranged in a respective cylinder (14) radially with respect to the drive shaft (4) and each have a piston footplate (18), which makes contact with the circumferential surface (10, 12) of the running roller (8), at their ends facing the running roller (8).

The invention provides that at least that surface (28) of the piston footplate (18) which is in contact with the circumferential surface (10, 12) of the running roller (8) consists of a wear-resistant material, namely hard metal, a ceramic material, a cast carbide material or cermet, and/or that at least part of the running roller (8), in particular at least part of the circumferential surface (10, 12) of the running roller (8), consists of a wear-resistant material, namely of hard metal, a precision-cast material, a cast carbide material, a sintered tool steel or an alloyed nitriding steel and/or that the piston (16) consists of a ceramic material.

Fig. 1